



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/673,202	12/04/2000	Shigehiro Shimada	KOIK-T0215	2182

7590 02/27/2003  
Limbach & Limbach  
2001 Ferry Building  
San Francisco, CA 94111

*Resubmitted*

EXAMINER

CASCHERA, ANTONIO A

ART UNIT PAPER NUMBER

2697

DATE MAILED: 02/27/2003

5

Please find below and/or attached an Office communication concerning this application or proceeding.

*GH*

## Office Action Summary

Application No.

09/673,202

Applicant(s)

SHIMADA ET AL.

Examiner

Antonio A Caschera

Art Unit

2697

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-11 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-11 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 12/04/2000 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on \_\_\_\_ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

### Priority under 35 U.S.C. §§ 119 and 120

- 13) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

### Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) \_\_\_\_.
- 4) ☐ Interview Summary (PTO-413) Paper No(s) \_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_

## DETAILED ACTION

### *Priority*

1. Acknowledgment is made of applicant's claim for foreign priority under 35 U.S.C. 119(a)-(d). The certified copy has been filed in the pending application.

### *Specification*

2. The disclosure is objected to because of the following informalities:
  - a. The sentence, "In the above-mentioned method, in the case where contour shape move nonlinearly, shape different from contour shape was prepared," (see page 5, lines 10-11) is not a proper English sentence. A proper sentence would be, "In the above-mentioned method, in the case where a contour shape moves nonlinearly, the shape is different from when the contour shape was prepared." Improper sentences like the one above can be found throughout the specification.
  - b. The word, "applicent," on page 32, line 17 should be replaced with, "applicant."
  - c. The word "neighboring," is missed spelled throughout pages 41-42 of the specification (see for example page 41, lines 18-20, "neighbouring" should be replaced with "neighboring.").

Appropriate correction is required.

***Drawings***

3. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they include the following reference sign(s) not mentioned in the description:

- a. Reference #S21 of Figure 14 is not found anywhere in the specification.

A proposed drawing correction, corrected drawings, or amendment to the specification to add the reference sign(s) in the description, are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

***Claim Objections***

4. Claims 1-6 and 8-11 are objected to because of the following informalities:

- a. These claims comprise of sentences suffering from incorrect English, for example, the phrase, “wherein the curve generating means is adapted so that when the first frame is caused to be frame at the time of start,” should read, “wherein the curve generating means is adapted so that when the first frame is caused to be the frame at the time of start,” (see lines 2-3 of claim 3).

Appropriate corrections are required.

5. Claim 4 is objected to because of the following informalities:

- a. The phrase, “...the curve generating means generates, as curve, shape...” should read “...the curve generating means generates, a curve shape...” (see line 1 of claim 5).

Appropriate correction is required.

6. Claim 5 is objected to because of the following informalities:

Art Unit: 2697

- a. The preamble of claim 5, "The curve generating apparatus as set forth..." should read, "The curve generating apparatus as set forth..." (see line 1 of claim 5).

Appropriate correction is required.

7. Claim 9 is objected to because of the following informalities:

- a. The phrase, "...a procedure is taken to generate, as curve, shape..." should read "...a procedure is taken to generate, a curve shape..." (see line 1 of claim 5).

Appropriate correction is required.

8. Claim 11 is objected to because of the following informalities:

- a. The office believes the phrase, "...at second frame from curve to be generated in oricessed of first frame," should read "...at second frame from curve to be generated or processed of first frame," (see line 4 of claim 11).

Appropriate correction is required.

### ***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

9. Claims 1-11 are rejected under 35 U.S.C. 102(b) as being anticipated by Kato (JP10-040395).

In reference to claims 1 and 6, Kato discloses an object outline processing method where outlines of objects, including curved outlines, are extracted using curve data points of 2 reference

frames to produce, the same curve data points in intermediate frames, onto a display (see paragraph 31, lines 14-18 of paragraph 30, "solution" section of abstract and Figure 6). Kato also discloses using certain curve data points of the outline of an object of reference frames  $F1$  and  $F_n$  to create the object in intermediate frames so that certain curve data points,  $A_n$  and  $N_n$ , correspond in all the frames  $F1-F_n$  (see paragraphs 31-35 and Figures 5-7).

In reference to claims 2, 4 and 5, Kato discloses all of the claim limitations as applied to claim 1 above, in addition, Kato discloses using certain curve data points of the outline of an object of reference frames  $F1$  and  $F_n$  to create an object in intermediate frames so that certain curve data points,  $A_n$  and  $N_n$ , correspond in all the frames  $F1-F_n$  (see paragraphs 31-35 and Figures 5-7).

In reference to claims 3 and 8, Kato discloses all of the claim limitations as applied to claims 1 and 6, respectively above, in addition, Kato discloses the start reference frame  $F1$  and end reference frame being  $F_n$  (see lines 4-6 of paragraph 31). Kato also discloses using a DDA algorithm to interpolate curve data points, based on those points of reference frames  $F1$  and  $F_n$ , between data midpoints  $K1-K_n$  of an object in intermediate frame  $F_k$  (see paragraphs 35-36 and Figure 7).

In reference to claims 7, 9 and 10, Kato discloses all of the claim limitations as applied to claim 6 above, in addition, Kato discloses using certain curve data points of the outline of an object of reference frames  $F1$  and  $F_n$  to create an object in intermediate frames so that certain curve data points,  $A_n$  and  $N_n$ , correspond in all the frames  $F1-F_n$  (see paragraphs 31-35 and Figures 5-7).

Art Unit: 2697

In reference to claim 11, Kato discloses an auxiliary memory which stores various programs defining the data processing method (see paragraph 17 and #308 of Figure 1). Kato also discloses an object outline processing method where outlines of objects, including curved outlines, are extracted using curve data points of 2 reference frames to produce, the same curve data points in intermediate frames, onto a display (see paragraph 31, lines 14-18 of paragraph 30, "solution" section of abstract and Figure 6). Kato discloses using certain curve data points of the outline of an object of reference frames F1 and Fn to create the object in intermediate frames so that certain curve data points, An and Nn, correspond in all the frames F1-Fn (see paragraphs 31-35 and Figures 5-7).

### *Conclusion*

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Antonio Caschera whose telephone number is (703) 305-1391. The examiner can normally be reached Monday-Thursday and alternate Fridays between 7:00 AM and 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph Mancuso, can be reached at (703)-305-3885.

**Any response to this action should be mailed to:**

Commissioner of Patents and Trademarks

Washington, D.C. 20231

**or faxed to:**

Art Unit: 2697

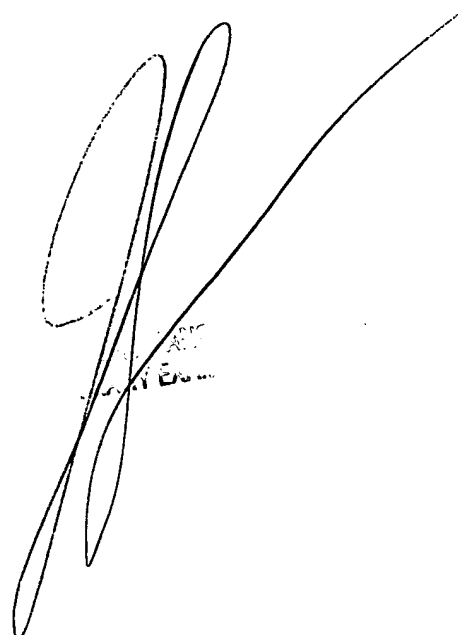
**(703) 872-9314 (for Technology Center 2600 only)**

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive,  
Arlington, VA, Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding  
should be directed to the Technology Center 2600 Customer Service Office whose telephone  
number is (703) 306-0377.

aac

**2/6/03**

A large, stylized handwritten signature in black ink, consisting of several loops and a long, sweeping horizontal stroke extending to the right.